

511 is then set to input A allowing the newest incoming pixel data 510 to be summed into the average by setting the adder 513 to add utilizing wire 514, then clocking the memory 515 to capture the new sum. This sum is then barrel shifted using barrel shifter 517 to do the divide, and presented to the video encoder via bus 518 and multiplexer 507. The averaged video data is then available on video output 550. This process is repeated for each pixel in the frame, with the pixel counter 560 being incremented by the state machine 524 for each pixel clock. After the average has been processed for one frame, the state machine increments the frame counter 532 via signal 529, or resets it via signal 530 if the total number of frames to be integrated has been met.

AS cont
(12.) Please amend paragraph 68, pages 20-21 as follows:

[0068] It can be seen that the accumulator memory 515 can be implemented within memory 522 to conserve hardware, but the accuracy of the accumulator is greater than the historical data so the memory either has to be made wider in word width, or two memory cycles are required. In addition, moving the accumulator into the memory 522 places an additional bandwidth burden on the memory, thus causing it to have to be an extremely expensive fast part and causing it to consume more power. In the preferred embodiment maintaining separate memory for the accumulator and the historical memory is preferable.

In the Claims:

Please add new claims 57-60, which contain no new matter, as follows:

- AG cont
57. A hand-held surveillance system, comprising:
a mounting rail; and
a connector;
wherein the mounting rail and the connector are adapted to couple a plurality of sensor units selected from a group consisting of:
a high performance day module;
a high performance night module;
a laser range finder;
a forward looking infrared module;
a radio frequency probe module; and
- 6

a nuclear, biological, and chemical detector.

58. A hand-held surveillance system, comprising:

a mounting rail;

a connector;

wherein the mounting rail and the connector are adapted to couple a plurality of sensor units, each comprising a plug, the units selected from a group consisting of:

a high performance day module;

a high performance night module;

a laser range finder;

a forward looking infrared module;

a radio frequency probe module; and

a nuclear, biological, and chemical detector;

a data input device; and

a display adapted to display data from the input device and data from the plurality of sensor units.

59. A hand-held surveillance system, comprising:

a mounting rail;

a connector; and

a receptacle;

wherein the mounting rail and the connector are adapted to couple a plurality of sensor units, each comprising a plug, the units selected from a group consisting of:

a high performance day module;

a high performance night module;

a laser range finder;

a forward looking infrared module;

a radio frequency probe module; and

a nuclear, biological, and chemical detector; and

wherein the plug is adapted to mate to the receptacle which further couples each of the sensor units.

60. A hand-held surveillance system, comprising:
- a mounting rail;
 - a connector;
 - a receptacle;
- wherein the mounting rail and the connector are adapted to couple a plurality of sensor units, each comprising a plug;
- wherein the plug is adapted to mate to the receptacle which further couples each of the sensor units;
- a data input device;
- a display adapted to display data from the input device and data from the plurality of sensor units;
- an electrical interface in the system; and
- an electrical interface in each of the sensor units;
- wherein the electrical interfaces are adapted to couple to one another when at least one of a following occurs:
- the mounting rail and the connector are coupled to the sensor units; and
 - the plug is mated to the receptacle.
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